HARSHIT SOHANEY

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EXPERIENCE

Back-End Software Engineer Co-op | Mozilla Corp.

May 2023 - Present

- Implemented the spec for **Storage Access API** in collaboration with Mozilla, Google and Apple, by upgrading storage access from per page to per frame
- Improved Firefox privacy features including fingerprinting, total cookie protection and security as a member of the **Anti-tracking web-platform** team
- Redesigned the clear browsing data process that improved user's experience over controlling their privacy settings

Application Developer Co-op | Softchoice Corp.

May 2022 - Aug 2022

- Improved the front-end and back-end for Single Page Applications (SPA) on Softchoice's portal using .NET Core to help users navigate items efficiently
- Optimized API logging tables with Object Relational Mapping (ORM) using LINQ to SQL queries and improved access time from 30 seconds to 2 seconds
- Implemented a planning interface by creating APIs to assist in determining development time and creating tasks

PROJECT HIGHLIGHTS

Syllabyte | Personal Project/Founder

May 2023 - Present

- Led a team of 5 to develop a studying application to help students with ADHD tackle time dysmorphia and decision paralysis during the school year
- Developed an **API** architecture using **Django** and created a heuristics-based **recommendation algorithm** that sorts course tasks in order of importance
- Researched about an AI based PDF scanning feature to automate task inputting which is predicted to save users 2-4 hours in to-do list maintenance

Moodlist | Deep Learning Project

Oct 2022 - Jan 2023

- Designed and trained a mood classifier based on a user's music history to personalize recommendations using PyTorch, NumPy, and the Spotify API
- Improved the pipeline of **Feature Engineering** by developing a data cleaning workflow to process a 1 million item dataset with over 5 gigabytes of data
- Engineered a Recurrent Neural Network (RNN) architecture with an accuracy of 75% in predicting a user's mood

GIS Mapping System | University of Toronto ECE297

Jan 2022 - May 2022

- Developed a navigation system using OpenStreetMap with C++ to improve movement speed by 98%
- Applied algorithms such as **Breadth First Search**, **Dijkstra**, and **A*** to optimize path-finding and included features such as directions, subways and search bar
- Employed heuristic algorithms such as **2-opt** and **Simulated Annealing** with techniques like **multi-threading** to find an optimum solution to the Travelling Salesman Problem

ACHIEVEMENTS

- Second Place Prize winner against 200+ participants at NewHacks 2022
- Second Place Prize winner against 20 teams at ENACTUS UofT Innovation Pitch Competition for a social venture

EDUCATION

Bachelor of Applied Science

in Computer Engineering

University of Toronto

Sept 2020 - May 2025

Minor in Artificial Intelligence Dean's Honor List 2020 - 2023

Courses

Data Structures & Algorithms, Operating Systems, Intro to Deep Learning, Probability & Statistics, Ethics of Al, Computer Networks

Clubs & Positions

UofT AI - Director of ProjectX, UofTHacks - Web-dev executive uofthacks.com, Learn AI - Curriculum Content Lead, ECE Club - Events Director, UofT Aerospace Design Team -Firmware & Optics, Musician

TECHNICAL SKILLS

Programming

Software C/C++ Python C# Git MySQL PostgresSQL Web JavaScript AngularJS jQuery

Django

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React

Skills
Agile Development SCRUM
Software Communication
Engineering Design

Machine Learning

PyTorch	Numpy	TensorFlow	
NLTK	Matplotlib	Pandas	

Software and Frameworks

ООР	.NET Development		
MVC Architecture		LINQ	GCP